

## **GROUP 1: “A MIRACLE OCCURS” OR “WHAT? ME WORRY?”**

### **Plentiful Water/Plentiful Energy**

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#### Indicators for plentiful /cheap water:

Flooding/Lots of water  
Able to retain flood water by effective capture  
Increased ski season (due to good snow pack) bringing in more tourists/increasing economic benefit  
Cheap desalinization results from more effective treatment  
Cuts in government spending  
Lots of industry using water  
Water is wasted and not valued  
Change/decrease in the quality of water  
Return to dry farming  
Change in Infrastructure: water is piped to NM from other places—more water  
Valley and all other places are GREEN

#### Indicators for plentiful/cheap energy:

More pollution  
Solar panels on every house and effective power purchase agreements  
Dramatic increase of renewable energy  
More energy efficiency  
Less energy efficiency  
Better energy storage systems  
Technology shifts:  
    nuclear, solar and subsets of the same, e.g. efficient solar panel collectors;  
    enriching waste from the nuclear power plants  
20% decrease in population because economy tanks  
Decentralization

#### Social indicators:

Educating children and their families causing use/behavior changes  
Miles per gallon may be modified in relation to the energy changes  
Resources are adjusted to reality  
Better planning  
City Councils distribute rain barrels to all homes with dollars saved from effective resource use  
Every elementary school teacher learns and then teaches their students about thermodynamics  
Maybe folks won't be driving all over/people begin to see “it's up to me”  
Doing less with more resources  
Equal treatment of stakeholders; no more fighting over scarce resources

#### What the 2025 world looks like:

***2025 hasn't really accounted for all the invisible costs to get here***

***Economic principles drive use rather than sustainability***

Lots of flooding/water is captured

Water is wasted

Lots of Water brings lots of industry

Energy: Plentiful/Cheap

Solar energy on every house

Hydropower overtakes oil and gas as energy source

Waste

Pollution

Carbon burn creates carbon dioxide in the atmosphere furthering global warming

Cost of efficiency results in more use

Crowded

Less population

Could look like the Netherlands with tons of water; then inefficient use and increased populations

Population living here are living on higher elevations

“Business as Usual” measured by Today

Disruption of natural cycles

Efficiencies created by Technology breaks-through

Environmental regulations capture costs more efficiently /changing view of “cost to customer” includes all costs

Headline: “Breakthrough on cheaply capturing clean energy from coal!”

Lifestyle changes: alternative energy methodologies more available (individuals have more control)

View of reality by the populace changes

Headlines along the way from present to 2025

2012 -- Educate children to better use resources/ Obama loses/Regulations relaxed/Collapse of World Economies/Ban on births for 25 years/ Solar power used and lots of unregulated coal use results in pollution

2015—Intel closes-Feds cut budgets 20%/ new sources of water discovered/Emigration from the state leaves more water for those behind/ EPA goes away

2020 -- work with children in early part of timeline pays off in better use/change mindset through education

2025 -- on the brink of disaster—Can’t sustain!